

CLAIMS

What is claimed is

1. A method for the prevention and treatment of obesity, syndrome X, diabetes,
5 hypercholesterolemia, atherosclerotic complications, ischemia, thrombosis, and cardiovascular
conditions said method comprising administering to a host in need thereof a polycosan-
ol composition of matter comprised of 35% to 55% of long chain aliphatic alcohols, wherein
said alcohols are selected from the group consisting of 1-hexacosanol (~20%-30%), 1-
octacosanol (~15%-25%), 1-triacontanol (~2%-4%) and 1-tetracosanol (~1%-3%).

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2. A method for the prevention and treatment of obesity, syndrome X, diabetes,
hypercholesterolemia, atherosclerotic complications, ischemia, thrombosis, and cardiovascular
conditions said method comprising administering to a host in need thereof a polycosan-
15 ol composition of matter comprised of 75% - 100% of long chain aliphatic alcohols, wherein
said alcohols are selected from the group consisting of 1-hexacosanol (~30%-50%), 1-
octacosanol (~25%-45%), 1-triacontanol (~4%-10%) and 1-tetracosanol (~3%-9%).

20 3. The method of claim 1 wherein the polycosan-ol composition is administered in
a dosage selected from 0.01 to 200 mg/kg of body weight.

4. The method of claim 1 wherein the route of the administration is selected from
the group consisting of oral, topical, suppository, intravenous, and intradermic, intragaster,
25 intramusclar, intraperitoneal and intravenous administration in an appropriate pharmaceutical
formula.

5. The method of claim 1 wherein the polycosan-ol concentration in an appropriate
pharmaceutical formula is selected from 0.01% to 100%.

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6. The method of claim 2 wherein the polycosanol composition is administered in a dosage selected from 0.01 to 200 mg/kg of body weight.

5 7. The method of claim 2 wherein the route of the administration is selected from the group consisting of oral, topical, suppository, intravenous, and intradermic, intragaster, intramusclar, intraperitoneal and intravenous administration in an appropriate pharmaceutical formula.

10 8. The method of claim 2 wherein the polycosanol concentration in an appropriate pharmaceutical formula is selected from 0.01% to 100%.